



Attorney Docket No.: CXU-272

**COMBINED DECLARATION FOR PATENT APPLICATION
AND POWER OF ATTORNEY**

(includes reference to PCT International Applications)

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Process for Separating Hazardous Metals from Waste Materials

During Vittrification

the specification of which

() is attached hereto.

(XX) was filed on March 3, 1998 as
Application Serial No. 09/033,827
and was amended on N/A.
(if applicable)

() was filed as PCT International Application
No. _____ on _____ and was
amended under PCT Article 19 on _____.
(If applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information known to me to be material to patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate or of any PCT International Application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any PCT International Application(s) designating at least one country other than the United States of America having a filing date before that of the application on which priority is claimed:

Prior Foreign/PCT Application(s)
(if PCT, indicate "PCT" under Country)

Priority Claimed

Number	Country	Day/Month/Year Filed	() Yes	() No
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I hereby claim the benefit under Title 35, United States Code Section 120 of any United States application(s) or PCT International Application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in such prior application(s) in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulation, Section 1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Application Serial No. or PCT Application No. (and any assigned USSN)	U.S. or PCT Filing Date	Status -- Patented Pending, or Abandoned
_____	_____	_____
_____	_____	_____

POWER OF ATTORNEY: As a named Inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Wellington M. Manning, Jr.	Registration No. 22,376
Julian W. Dority	Registration No. 20,268
James M. Bagarazzi	Registration No. 29,609
Richard M. Moose	Registration No. 31,226
Mark C. Dukes	Registration No. 32,343
Stephen E. Bondura	Registration No. 35,070
Neil C. Jones	Registration No. 35,561
Craig N. Killen	Registration No. 35,218
Timothy A. Cassidy	Registration No. 38,024
Lloyd G. Farr	Registration No. 38,446
Jeffrey M. Karmilovich	Registration No. 35,915
Frances Barnes Elliott	Registration No. 41,598
J. Bennett Mullinax	Registration No. 36,221

Send Correspondence to:	Direct Telephone Calls to:
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Dority & Manning, P.A.	(864) 271-1592
P.O. Box 1449	FAX (864) 233-7342
Greenville, SC 29602-1449	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Denis A. Brosnan

(Full name of sole or first inventor)

Inventor's Signature

Denis A. Brosnan

10/27/98

Date

Residence: Clemson, South Carolina

Citizenship: United States

Post Office Address: 108 Santee Trail, Clemson, South Carolina
29631

Applicant/Patentee: Denis A. Brosnan
Serial/Patent No.: 09/033,827 Docket No.: CXU-272
Filed/Issued: March 3, 1998
For: Process for Separating Hazardous Metals from Waste Materials During
Vitrification

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
STATUS (37 CFR 1.9(f) and 1.27(b) - INDEPENDENT INVENTOR**

As below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(f) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled Process for Separating Hazardous Metals from Waste Materials During Vitrification described in

☐ the specification filed herewith.

☒ application serial no. 09/033,827, filed March 3, 1998

☐ patent no. _____, issued _____.

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

☐ no such person, concern, or organization.

☒ persons, concerns, or organizations listed below*

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

FULL NAME Clemson University

ADDRESS 207 Sikes Hall, Clemson, SC 29634

☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☒ NONPROFIT ORGANIZATION

FULL NAME AJT Enterprises

ADDRESS 2419 Santee River Road, St. Stephen, SC 29479

☐ INDIVIDUAL ☒ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Denis A. Brosnan

Name of Inventor

Denis A. Brosnan
Signature of Inventor

10/27/98
Date

Best Available Copy

RECEIPT AND HANDLING OF MAIL AND PAPERS

Applicant: Dennis A. Brosnan Serial No.: 09/033,827Filed: March 3, 1998 Attorney's Docket No.: CXU-272VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) and 1.27(c)) - SMALL BUSINESS CONCERN

I hereby declare that I am

☐ the owner of the small business concern identified below:☒ an official of the small business concern empowered to act on behalf of the concern identified below:NAME OF CONCERN AJT Enterprises, Inc.ADDRESS OF CONCERN 2419 Santee River Road, St. Stephens, SC 29479

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled Process For Separating Hazardous Metals from Waste Materials During Vitrification

by inventor(s) Dennis A. Brosnan described in☐ the specification filed herewith.☒ application serial no. 09/033,827, filed March 3, 1998☐ patent no. _____, issued _____

Best Available Copy

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e). *NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

NAME Dennis A. BrosnanADDRESS 108 Santee Trail, Clemson, SC 29631

[X] INDIVIDUAL [] SMALL BUSINESS CONCERN [] NONPROFIT ORGANIZATION

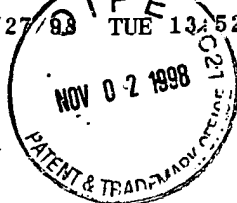
NAME Clemson UniversityADDRESS 207 Sikes Hall, Clemson, SC 29634

[] INDIVIDUAL [] SMALL BUSINESS CONCERN [X] NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING Gerald AddisonTITLE OF PERSON OTHER THAN OWNER President, AJT Enterprises, Inc.ADDRESS OF PERSON SIGNING 2419 Santee River Road, St. Stephen, South Carolina 29479SIGNATURE Gerald W. AddisonDATE 10/29/98



APPLICANT: Denis A. Brosnan SERIAL NO.: 09/033,827
FILED: March 3, 1998 DOCKET NO.: CXU-272
FOR: Process for Separating Hazardous Metals from Waste Materials
During Vitrification

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
STATUS (37 CFR 1.9(f) and 1.27(d) - NONPROFIT ORGANIZATION

I hereby declare that I am an official empowered to act on behalf
of the nonprofit organization identified below:

NAME OF ORGANIZATION: Clemson University
ADDRESS OF ORGANIZATION: 207 Sikes Hall, Clemson, SC 29634
TYPE OF ORGANIZATION:

- ☒ University or other institution of higher education
- ☐ Tax exempt under Internal Revenue Service Code USC
501(a) and 501(c)(3)
- ☐ Nonprofit scientific or educational under statute of
state of The United States of America
(Name of State) _____
(Citation of statute) _____
- ☐ Would qualify as tax exempt under Internal Revenue Ser.
Code (26 USC 501(a) and 501(c)(3)) if located in the
United States of America.
- ☐ Would qualify as nonprofit scientific or educational
under statute of state of The United States of America
if located in The United States of America
(Name of State) _____
(Citation of State) _____

I hereby declare that the nonprofit organization above qualified
as a nonprofit organization as defined in 37 CFR 1.9(e) for
purposes of paying reduced fees under section 41(a) and (b) of
Title 35, United States Code with regard to the invention
entitled Process for Separating Hazardous Metals from Waste
Materials During Vitrification by inventor Denis A. Brosnan
described in:

- ☐ the specification filed herewith.
- ☒ application USSN 09/033,827, filed March 3, 1998.
- ☐ patent no. _____, issued _____.

I hereby declare that the rights under contract or law have been
conveyed to and remain with the nonprofit organization with
regard to the above identified invention.

If the rights held by the nonprofit organization are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 CFR 1.9(d) or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

NAME: Denis A. Brosnan

ADDRESS: 108 Santee Trail, Clemson, South Carolina 29631

☒ INDIVIDUAL

☐ SMALL BUSINESS CONCERN

☐ NONPROFIT ORGANIZATION

NAME: AJT Enterprises

ADDRESS: 2419 Santee River Road, St. Stephen, SC 29479

☐ INDIVIDUAL

☒ SMALL BUSINESS CONCERN

☐ NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING: Y. T. Shah

TITLE IN ORGANIZATION: Chief Research Officer

ADDRESS OF PERSON SIGNING: Clemson University, 207 Sikes Hall
Clemson, SC 29634

SIGNATURE: Y. T. Shah

DATE: Oct. 26 '98